

The logo for Viridis Mining & Minerals features the word "VIRIDIS" in a large, white, sans-serif font, set against a dark green, rounded rectangular background. The background of the entire top section of the page is a light green geometric pattern of triangles.

**VIRIDIS**

**MINING & MINERALS**

## **SOUTH KITIKMEOT GOLD PROJECT**

### ***ANNUAL REPORT, 2023***

**2WLC-SKG2324**

**2BE-SKG2329**

**DECEMBER 2023**

**VIRIDIS MINING & MINERALS**

Level 50, 108 St Georges Terrace

Perth, WA 6000

## INTRODUCTION

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Viridis Mining & Minerals (Viridis) of Perth, Australia, B.C. is a junior exploration company with 100% ownership of the South Kitikmeot Gold Project (the Project) in the Kitikmeot Region of Nunavut. The Project is comprised of series of seven different claim blocks occurring over an area of approximately 11,000 ha adjacent to the past-producing Lupin Mine and the developing Back River Gold Project, and the northern extent of the Tibbitt to Contwoyto Winter Road. Exploration on the various claim blocks, known as Hiqiniq, Ujaraq, Gold Bug, Esker, Bling, Uist, and Qannituq. Viridis undertook its maiden drill program in 2023.

The purpose of this document is to fulfill annual reporting requirements Part B Item 2 of 2BE-SKG2329. The following sections correspond to the paragraphs in the water licence. The Nunavut Water Board (NWB) Annual Report Standard Form can be found in the appendices along with supporting information where required.

No work was undertaken under 2WLC-SKG2324.

### **1) THE LICENSEE SHALL FILE AN ANNUAL REPORT ON THE APPURTENANT UNDERTAKING WITH THE BOARD NO LATER THAN MARCH 31ST OF THE YEAR FOLLOWING THE CALENDAR YEAR BEING REPORTED**

This report is issued on or before March 31, 2024.

#### **a) A SUMMARY REPORT OF WATER USE AND WASTE DISPOSAL ACTIVITIES**

A summary report of water use and waste activities can be found in the NWB Annual Report Standard Form (Appendix A). Water was obtained by using a pump with a screened intake.

Sewage was managed by backhaul to Yellowknife, where it was disposed of at the Yellowknife solid waste facility's sewage disposal area.

Grey water was managed by depositing to a sump near camp in a natural depression behind the kitchen tent.

All other waste was backhauled to Yellowknife.

#### **b) QUANTITY OF WATER (IN CUBIC METRES/DAY) OBTAINED FOR DOMESTIC AND OTHER PURPOSES FROM SOURCES ON, IN OR FLOWING THROUGH INUIT OWNED LANDS FOR THE REPORTING PERIOD**

No water was drawn from sources on Inuit Owned Lands for the reporting period.

**c) QUANTITY OF WATER (IN CUBIC METRES/DAY) OBTAINED FOR DOMESTIC AND OTHER PURPOSES FROM SOURCES ON, IN OR FLOWING THROUGH CROWN LANDS REPORTING PERIOD**

A tabulation of water used from sources on Crown Land is provided in Appendix B.

**d) QUANTITY OF WASTE DISPOSED OF IN ON-SITE WASTE DISPOSAL FACILITY**

Onsite waste disposal facilities include the following:

- Camp greywater sump;
- Drill cuttings sumps<sup>1</sup>.

Quantities of waste deposited in each is summarized in Appendix C.

All sewage was collected in buckets and shipped to Yellowknife for disposal.

Sumps were located in natural depressions further than 100m from watercourses or wetlands.

**e) QUANTITY OF WASTE BACKHAULED TO APPROVED FACILITY FOR DISPOSAL**

All waste other than greywater and drill cuttings was backhauled to Yellowknife. Non-hazardous waste (general garbage, food waste, packaging etc.) was disposed of at the Yellowknife landfill. Sewage was transferred to the Yellowknife Solid Waste Facility, in the sewage waste facility. Hazardous materials such as waste oil, waste fuel, snow from refueling berms etc. were stored in buckets on site and consolidated to drums at Aurora Geosciences Ltd.'s warehouse in Yellowknife for disposal via KBL Environmental (once drums are full).

<b>Waste Category</b>	<b>Amount (approximate)</b>	<b>Units</b>
Waste oil, fuel, and snow from berms	300	Litres (approximately 15 buckets)
Sewage	2	m <sup>3</sup>
Garbage (food waste, packaging, etc.)	1,022	kg

**f) A LIST OF UNAUTHORIZED DISCHARGES AND A SUMMARY OF FOLLOW-UP ACTIONS TAKEN**

There were no unauthorized discharges in 2023.

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<sup>1</sup> Drill core was taken to Yellowknife for cutting. As no core cutting was performed on site, there was no core saw waste deposited

**g) ANY REVISIONS TO THE MANAGEMENT PLANS, AS REQUIRED BY PART B, ITEM 7, SUBMITTED IN THE FORM OF AN ADDENDUM**

There are no revisions to the management plans.

**h) A DESCRIPTION OF ALL PROGRESSIVE AND OR FINAL RECLAMATION WORK UNDERTAKEN, INCLUDING PHOTOGRAPHIC RECORDS OF SITE CONDITIONS BEFORE, DURING AND AFTER COMPLETION OF OPERATIONS**

Drill casings were pulled or cut off at surface. The drill anchors were cut off level with the ground surface. Pads were cleaned up and materials were removed. All drilling equipment, rods and other ancillary equipment was demobilized to Yellowknife upon completion of the program. Drill cuttings were deposited into natural depressions.

All camp structures and equipment were demobilized to Yellowknife, with only the wooden floors and structures (outhouse, storage boxes), and one water tank remaining on site.

A fuel cache of 38 drums of diesel in two berms (up to a maximum of 20 drums per berm) is stored on the property. Each berm is equipped with a hydrocarbon filter to drain rainfall and snowmelt. 64 empty drums remain on the site and are neatly stacked on the tent floors. All other fuel containers have been removed from the site.

**i) REPORT ALL ARTESIAN FLOW OCCURRENCES AS REQUIRED UNDER PART F, ITEM 3**

No artesian flows were encountered.

**j) A SUMMARY OF ALL INFORMATION REQUESTED AND RESULTS OF THE MONITORING PROGRAM**

The Monitoring Program requires reporting of information tabulated in Table 1. Table 1 identifies where this information can be found herein. No additional information was requested.

Table 1. Location of Monitoring Program Results

Paragraph	Item	Location of Monitoring Results
1	Daily quantities of water utilized for camp, drilling and other purposes	Appendix B
2	GPS co-ordinates of all locations where sources of Water are utilized for all purposes	Appendix A
3	GPS co-ordinates of all locations where Wastes associated with camp operations and drilling operations are deposited.	Appendix A

4	Representative samples of the water column below any on ice drilling	No under-ice drilling was undertaken.
5	Sampling and analysis of water collected in trenched, being prior to discharged.	No trenches were established

**k) DETAILS PERTAINING TO LOCATIONS OF SUMP(S) AND DRILL HOLES**

There were three drill set ups and seven holes drilled. Two cuttings sumps were established. The first was used for the first drill set-up, the second accommodated the second and third drill set-up. Drill hole locations are listed in Appendix D. Cuttings sump locations are listed in Appendix A.

**l) GPS CO-ORDINATES (IN DEGREES, MINUTES AND SECONDS OF LATITUDE AND LONGITUDE) FOR THE LOCATIONS OF ALL TEMPORARY CAMPS ESTABLISHED IN SUPPORT OF THE PROJECT IF THE ACTUAL COORDINATES DIFFER FROM THAT PROVIDED IN THE APPLICATION**

The Esker Lake Camp was established at 65°01'40.4"N 108°38'16.5"W.

**m) A SUMMARY, INCLUDING PHOTOGRAPHIC RECORDS BEFORE, DURING AND AFTER ANY RELEVANT CONSTRUCTION ACTIVITIES OR MODIFICATIONS AND/OR MAJOR MAINTENANCE WORK CARRIED OUT ON FACILITIES UNDER THIS LICENCE AND AN OUTLINE OF ANY WORK ANTICIPATED FOR THE NEXT YEAR**

A photo log of the 2023 program is provided in Appendix E.

**n) DETAILED DISCUSSION ON THE PERFORMANCE, INSTALLATION, AND EVALUATION, INCLUDING THE USE OF PHOTOGRAPHIC RECORD, OF THE PRIMARY AND SECONDARY CONTAINMENT FUNCTIONS USED IN FUEL STORAGE TO SAFEGUARD IMPACTS TO FRESHWATERS**

A fuel cache was established at the Esker Lake Camp, which involved installation of a new arctic grade berm fitted with a hydrocarbon filter (Rain Drain™) to store drummed fuel and fuel dispensing equipment. Fuel in use was either in drums within secondary containments such as those found at the tents and incinerator, or in a double-walled tidy tank such as that found at the drills. Photos are provided in Appendix E.

**o) A SUMMARY OF PUBLIC CONSULTATION/PARTICIPATION, DESCRIBING CONSULTATION WITH LOCAL ORGANIZATIONS AND RESIDENTS OF THE NEARBY COMMUNITIES, IF ANY WERE CONDUCTED**

Despite weather delays resulting in last minute rescheduling, a public meeting was held in Kugluktuk on February 1, 2023. Viridis personnel also met with Hamlet and Kugluktuk Agoniatit Association staff.

Engagements focused on introducing the project team and scope, discussing employment opportunities, communication of activities on the land, and wildlife mitigation measures.

**p) ANY OTHER DETAILS ON WATER USE OR WASTE DISPOSAL REQUESTED BY THE BOARD BY THE 1ST NOVEMBER OF THE YEAR BEING REPORTED.**

None requested.

**APPENDIX A. NWB ANNUAL REPORT STANDARD FORM**

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**NWB Annual Report**

**Year being reported:** Select ▼

2023

**License No:** 2BE-SKG2329 **Issued Date:** March 8, 2023  
**Expiry Date:** December 31, 2029

**Project Name:** South Kitikmeot Gold Project

**Licensee:** Viridis Mining and Minerals Ltd.

**Mailing Address:** 2900 - 550 Burrard St.  
Vancouver BC  
V6C 0A3

**Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):**  
Aurora Geosciences Limited., authorized personnel

**General Background Information on the Project (\*optional):**

2023 is the first year of Viridis's exploration program.

**Licence Requirements: the licensee must provide the following information in accordance with**

Part B ▼ Item 2 ▼

**A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.**

Water Source(s):	<span style="border: 1px solid black; padding: 2px;">Esker Lake, Unnamed Lake near drilling area</span>	
Water Quantity:	<span style="border: 1px solid black; padding: 2px;">644</span>	Quantity Allowable Domestic (cu.m)
	<span style="border: 1px solid black; padding: 2px;">23.65</span>	Actual Quantity Used Domestic (cu.m)
	<span style="border: 1px solid black; padding: 2px;">6270</span>	Quantity Allowable Drilling (cu.m)
	<span style="border: 1px solid black; padding: 2px;">454.776</span>	Total Quantity Used Drilling (cu.m)

**Waste Management and/or Disposal**

- Solid Waste Disposal
- Sewage
- Drill Waste
- Greywater
- Hazardous
- Other:

**Additional Details:**

See attached report.

**A list of unauthorized discharges and a summary of follow-up actions taken.**

Spill No.:  (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

No spills occurred

**Revisions to the Spill Contingency Plan**

Select

Additional Details:

No revisions required

**Revisions to the Abandonment and Restoration Plan**

Select

Additional Details:

No revisions required

**Progressive Reclamation Work Undertaken**

Additional Details (i.e., work completed and future works proposed)

See attached report

**Results of the Monitoring Program including:**

**The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;**

Details attached

Additional Details:

**The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;**

Details attached

Additional Details:

**Results of any additional sampling and/or analysis that was requested by an Inspector**

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (date of request, analysis of results, data attached, etc)

**Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.**

No additional sampling requested by an Inspector or the Board ▼

Additional Details: (Attached or provided below)

**Any responses or follow-up actions on inspection/compliance reports**

No inspection and/or compliance report issued by INAC ▼

Additional Details: (Dates of Report, Follow-up by the Licensee)

**Any additional comments or information for the Board to consider**

**Date Submitted:**

2023-12-15

**Submitted/Prepared by:**

Dave White

**Contact Information:**

**Tel:** 867-920-2729

**Fax:**

**email:** [dave.white@aurorageosciences.com](mailto:dave.white@aurorageosciences.com)

## **APPENDIX B. DAILY WATER USE,**

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All water use was drawn from Crown Land.

Date	Daily Camp Water Use (m <sup>3</sup> )	Cumulative Camp Water Use (m <sup>3</sup> )	Daily Drill Water Use (m <sup>3</sup> )	Cumulative Drill water use (m <sup>3</sup> )
2023-03-08	0	0	0	0
2023-03-09	0	0	0	0
2023-03-10	0	0	0	0
2023-03-11	0	0	0	0
2023-03-12	0	0	0	0
2023-03-13	0	0	0	0
2023-03-14	0	0	0	0
2023-03-15	0	0	0	0
2023-03-16	0	0	0	0
2023-03-17	0	0	0	0
2023-03-18	0	0	0	0
2023-03-19	0	0	0	0
2023-03-20	0	0	0	0
2023-03-21	0	0	0	0
2023-03-22	1.892	1.892	0	0
2023-03-23	0	1.892	0	0
2023-03-24	0	1.892	0	0
2023-03-25	0	1.892	0	0
2023-03-26	0	1.892	0	0
2023-03-27	0	1.892	0	0
2023-03-28	0	1.892	0	0
2023-03-29	1.892	3.784	0	0
2023-03-30	1.892	5.676	0	0
2023-03-31	0	5.676	0	0
2023-04-01	2.838	8.514	0	0
2023-04-02	0	8.514	46.208	46.208
2023-04-03	1.892	10.406	46.196	92.404
2023-04-04	1.892	12.298	34.725	127.129
2023-04-05	0	12.298	17.478	144.607
2023-04-06	2.838	15.136	40.665	185.272
2023-04-07	0	15.136	46.373	231.645
2023-04-08	2.838	17.974	46.393	278.038
2023-04-09	1.892	19.866	46.392	324.43
2023-04-10	0	19.866	46.435	370.865
2023-04-11	1.892	21.758	46.469	417.334
2023-04-12	0	21.758	37.442	454.776
2023-04-13	1.892	23.65	0	454.776
2023-04-14	0	23.65	0	454.776
2023-04-15	0	23.65	0	454.776
2023-04-16	0	23.65	0	454.776
2023-04-17	0	23.65	0	454.776
2023-04-18	0	23.65	0	454.776
2023-04-19	0	23.65	0	454.776
2023-04-20	0	23.65	0	454.776
2023-04-21	0	23.65	0	454.776
2023-04-22	0	23.65	0	454.776

## APPENDIX C. QUANTITIES OF WASTE DEPOSITED

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Item	Waste	Amount
Camp sump	Greywater	23.65 m <sup>3</sup>
Cuttings sump 1	Water and cuttings	128m <sup>3</sup>
Cuttings sump 2	Water and cuttings	328 m <sup>3</sup>

## APPENDIX D. DRILL HOLE LOCATIONS

Drill Hole	Latitude			Longitude		
	Deg	Min	Sec	Deg	Min	Sec
	°	'	"	°	'	"
EL-23-001	65	01	34	108	39	44.5
EL-23-002	65	01	34	108	39	44.5
EL-23-003	65	01	27.3	108	39	22.6
EL-23-004	65	01	27.3	108	39	22.6
EL-23-005	65	01	27.3	108	39	22.6
EL-23-006	65	01	25.3	108	39	18.9
EL-23-007	65	01	25.3	108	39	18.9

## APPENDIX E. PHOTOS

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*Figure 1: Esker Lake Camp in operation*



*Figure 2: Diamond drill in operation*

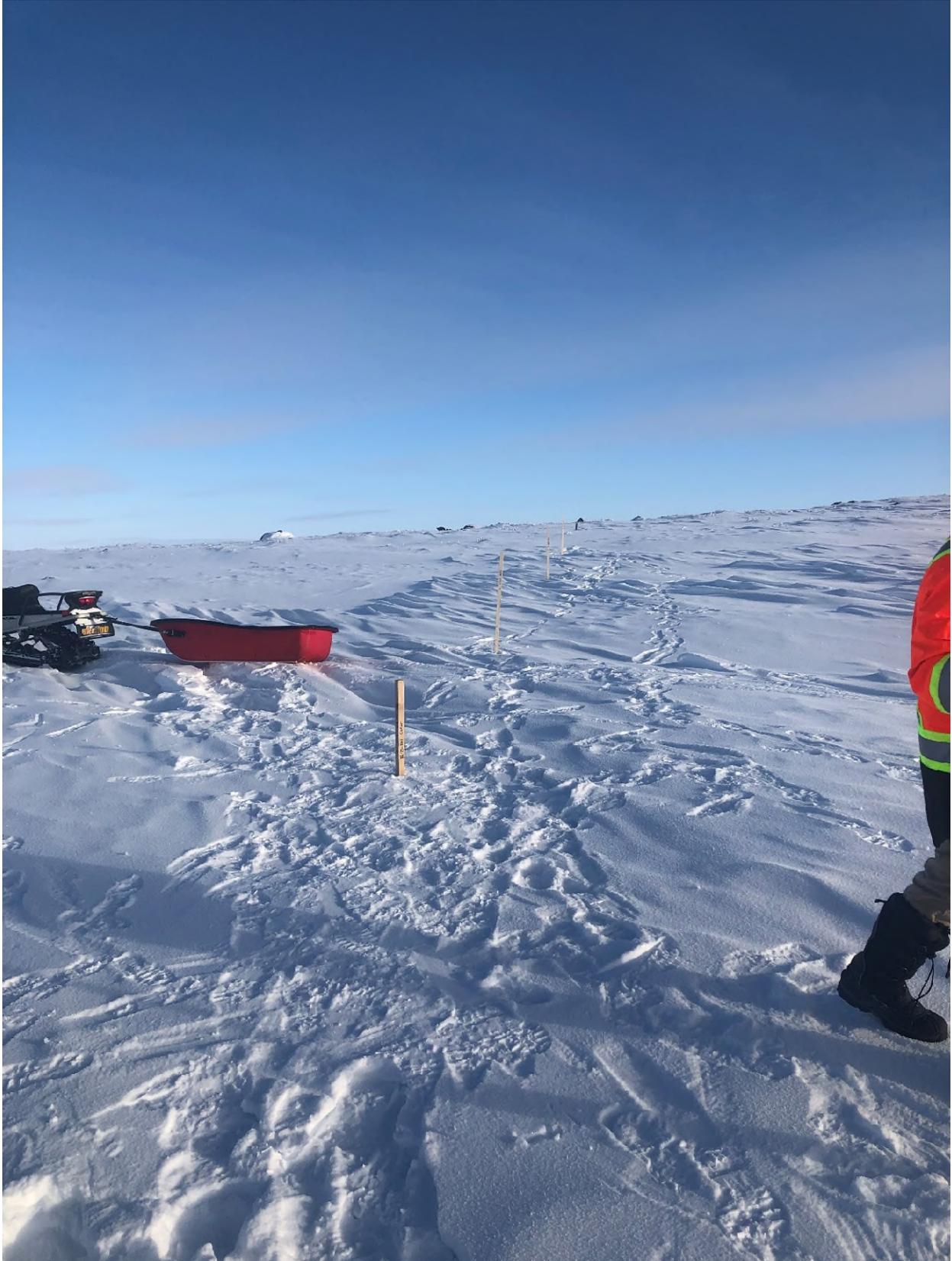


Figure 3: Drill Pad 1 Prior to Operations



*Figure 4: Drill Pad 1 after clean-up. Note casing in on right side of photo is from historic drilling, not the 2023 program.*



Figure 5: Drill Pad Two prior to operations.



*Figure 6: Drill Pad Two after clean-up.*



*Figure 7: Drill pad three prior to operations*



*Figure 8: Drill pad three after clean-up*



*Figure 9: Drill cutting sump one, used for drill pad one. Cuttings deposited into natural depression.*



*Figure 10: Drill Cutting Sump Two, cuttings deposited into natural depression for containment.*